

067-0112-00

50 Ω Impedance Bridge

Working Standard

1. PURPOSE AND ACCURACY:

The purpose of the 50 Ω Impedance Bridge is to accurately certify the DC input impedance of 50 Ω vertical systems to an accuracy of 1% or better. A bench test meter is used as the null indicating device. Error of the input impedance is read on the front panel of the impedance bridge when a null indication is obtained on the bench test meter. (Triplett 630NA, or equivalent.)

2. TRANSFER PROCEDURE:

- A. Connect the bridge to the VERTICAL INPUT of the device under calibration. NOTE: On the 4S1, remove the delay line from the trigger take-off transformer and connect the bridge directly to the line.
- B. Connect the Bench Test Meter to the five-way binding posts on the bridge. The COMMON lead from the meter should go to the Black binding post on the bridge.
- C. Depress the PUSH TO TEST Button on the bridge, and rotate the pointer until a null indication is observed on the V.O.M. Read the error of the input impedance on the front panel of the Impedance Bridge.

Since the tolerance of the Impedance Bridge is itself $\pm 0.2\%$, an error greater than $\pm 0.8\%$ as read on the front panel of the Bridge, when calibrating an instrument should be cause for changing the input resistor of the device under calibration. This assures that the input impedance of the device under calibration is within $\pm 1.0\%$.

NOTE: Refer to block diagram on following page for proper hook-up method.

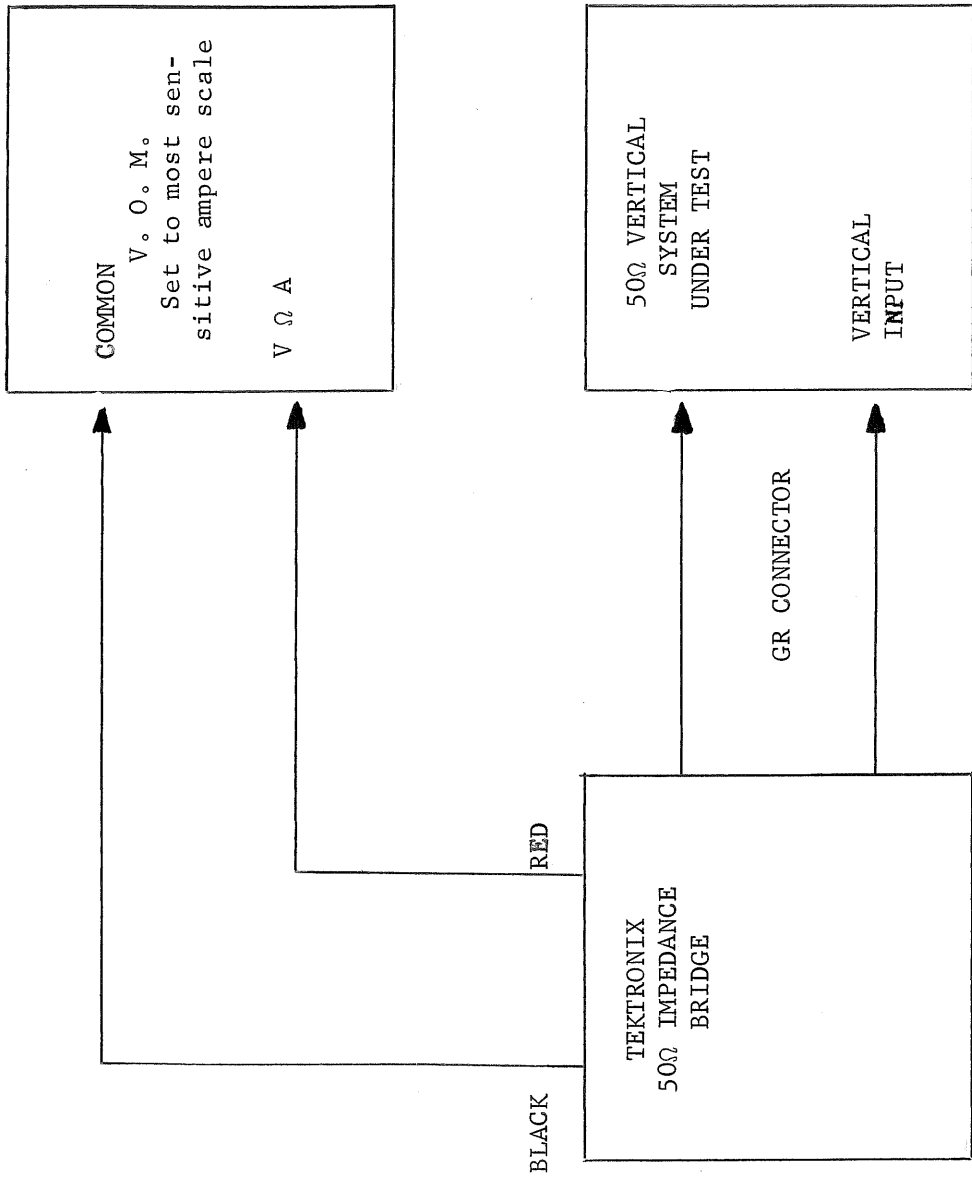
3. CALIBRATION:

This device should be returned to P.M. Production Control annually for recertification, or at any time the accuracy is questioned. A loaner bridge will be supplied during recalibration **if** required.

Replacement batteries for this device are available **under part number 146-0001-00.**

10-4-63
/FMS

Revised
10-22-63
12-66 SW



BLOCK DIAGRAM
 TRANSFER METHOD OF
 WORKING STANDARD TO
 MARKETABLE END PRODUCT